

Valentina Rho



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Date of birth 20 August 1990



Profile [Who I am]

I'm honest, reliable and really passionate. I'm looking for a position where I could continuously learn, working on something I care about, with skilled and determined people. I worked hard on knowledge representation and cognitive architectures, rather than tools to solve NLP tasks. Recently, I won the 2016 "Leonardo Lesmo" AI*IA prize for the best Italian master thesis on AI. After a really stimulating year and a half of working in ALTEC on the ExoMars project, I'm now trying to merge past-gained knowledge about Cognitive Science with Machine Learning tasks, spending a period of research work in Department of Computer Science in Turin. My studies are mainly related to artificial intelligence and cognitive science, but, in general, I'm fascinated by all hard-to-solve problems. I made experience in software application design and development during university years and work experiences: I'm an agile fan, a teamwork supporter and a think-before-doing software engineer. Studying and working I've gained deep problem solving and organizational skills, as well as an advanced knowledge of languages such as Java and Python. At this time my interests concern cognitive science, machine learning and cognitive computing, with particular attention to the last. I'm really interested also in home automation and applied AI fields.

Skills [Things I know]

Languages Italian: mothertongue.
English: Reception C1; Interaction B2; Production C1.
PET Certification with merit. Certificate of attendance of IELTS Academic course (simulation bands: 7.5-8)

Technologies Java, Python, PHP, Android SDK, JavaScript. Scrum methodology. Continuous integration and DevOps tools. Design patterns and software engineering. Cognitive Architectures, ontologies, NLP, Artificial Intelligence, Data Mining and Machine Learning applied methodologies.

Education [Where I studied]

Master Degree in Computer Science

University of Torino, Italy (Dep. of Computer Science)

Apr 2015

Final mark: 110/110 (magna cum laude and distinction).

My thesis was about the extension and integration of a hybrid concept representation system, namely Dual-PECCS, into the cognitive architecture ACT-R. Dual-PECCS is a hybrid system for knowledge representation created with the aim at extending the capabilities of the state-of-the-art KR systems, with the integration of different cognitive theories.

Bachelor degree in Computer Science

University of Torino, Italy (Dep. of Computer Science)

Oct 2012

Final mark: 110/110 (magna cum laude).

My thesis was about the design and development of an Android application for managing and sharing geolocalized tasks and memos, triggered by the user position.

High School Diploma in Accountancy and Programming

Technical institute "Michele Buniva", Pinerolo

Jul 2009

Final mark: 100/100.

My thesis was about the evolution of marketing with the growth of web 2.0, with a focus on applied examples of guerrilla marketing. The work was presented through a simple website.

Work Experience *[What I've done]*

Junior Research Fellow

Department of Computer Science, Torino, Italy

Sep 2016 – Today (Sep 2017)

1-year research fellowship related to UniTo MIMOSA project (MultiModal Ontology-driven query system for the heterogeneous data of a Smartcity), focused on machine learning and NLP methodologies applied to the automatic topic indexing problem.

Java programming II course Tutor

University of Torino, Italy

May 2017 – Today (Sep 2017)

Teach a 40 hours remedial course to prepare students to the Java Programming II exam.

Software Engineer

ALTEC S.p.A., Torino, Italy

Apr 2015 – Sep 2016

I worked as a Software Engineer in ALTEC for the ExoMars mission. My main job was to design and develop the support software (both web and desktop applications) that will be used during the mission operations into the Rover Operations Control Center.

Android Developer

Medical Technology s.r.l. , Torino, Italy

Aug 2014 – Sep 2014

Design and development of a prototype of an Android app for managing triage procedures in major disasters, using NFC tags in order to track the patient's condition. The application has also been presented at REAS Emergency Exhibition (10-12 October 2014) tridima.com

Freelance web developer

Torino, Italy

Jul 2013 – Jul 2014

Website design and development, such as: asproflor.it and otticavirano.it.

University course assistant

University of Torino, Italy

Oct 2010 – Jul 2014

Assistant during the following courses and academic years:

- 2013/2014 – Database laboratory
- 2012/2013 – Database laboratory
- 2010/2011 – Java Programming I laboratory

Android Developer (internship / thesis)

University of Torino, Italy

Jun 2012 – Oct 2012

Design and development of an Android application for managing and sharing geolocalized tasks. www.geodo.valentinanho.eu

Secretary

I worked at Ghione during the high school summer breaks, initially as an intern and later as a secretary substitute.

Scientific publications *[Refer also to researchgate profile]*

Measuring the Inspiration Rate of Topics in Bibliographic Networks

L Bioglio, V Rho, R. G. Pensa

2017

(to appear) Proc. of the International Conference on Discovery Science (DS), October 2017.

TrAnET: Tracking and Analyzing the Evolution of Topics in Information Networks

L Bioglio, R. G. Pensa, V Rho

2017

(to appear) Proc. of the Joint European Conference on Machine Learning and Knowledge Discovery in Databases (ECML PKDD), Demo Track, September 2017.

Concept-enhanced Multi-view Co-clustering of Document Data

V Rho, R. G. Pensa

2017

Proc. of the International Symposium on Methodologies for Intelligent Systems (ISMIS), June 2017.

Dual PECCS: A Cognitive System for Conceptual Representation and Categorization

A Lieto, D P. Radicioni, V Rho

2016

Journal of Experimental & Theoretical Artificial Intelligence (JETAI), Taylor and Francis.

A common-sense conceptual categorization system integrating heterogeneous proxytypes and the dual process of reasoning

A Lieto, D P. Radicioni, V Rho

2015

Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), 2015.

Integrating a Cognitive Framework for Knowledge Representation and Categorization in Diverse Cognitive Architectures

A Lieto, D P. Radicioni, V Rho

2015

Proc. of the International Conference on Biologically Inspired Cognitive Architectures (BICA)

Extending Ontological Categorization Through a Dual Process Conceptual Architecture

A Lieto, D P. Radicioni, M Frixione, V Rho

2015

Selected Papers from the International Conference on Knowledge Engineering and Ontology Development (KEOD) Proceedings, 2014.

Honors & Awards

AI*IA 2016 “Leonardo Lesmo” Prize for the best Italian Master thesis in Artificial Intelligence

Sep 2016

Presentation: <http://goo.gl/FKABWr>.

Courses

IELTS Academic Preparation Course

Centro Linguistico di Ateneo, Torino

Jan-Apr 2017

Advanced Java SE 8 Programming Course

Oracle University Training Class, Torino

Mar 2016

Torino, 10 July 2017.

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003.